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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

application of: Dexian Dou, et al.

Serial Number: 09/914,277

Group Art Unit: 1647

Filed: March 25, 2002

For: ANTI-ANGIOGENIC KRINGLE PROTEIN AND ITS MUTANT

TRANSMITTAL OF SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(e)(1)

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Respectfully submitted,

KOHN & ASSOCIATES, PLLC

Kenneth I. Kohn

Registration No. 30,955

30500 Northwestern Hwy.

Suite 410

Farmington Hills, MI 48334

(248) 539-5050



MANUAL OF PATENT EXAMINING PROCEDURE

Sheet _1 of _3 Form PTO-1449 Docket Number (Optional) Application Number 1059.00051 09/914.277 SUPPLEMENTAL INFORMATION Applicant Dexian Dou, et al. DISCLOSURE CITATION IN AN **APPLICATION** (Use several sheets if necessary) Filing Date Group Art Unit 03/25/02 1647 **U.S. PATENT DOCUMENTS EXAMINER** FILING DATE DOCUMENT NUMBER DATE NAME INITIAL CLASS **SUBCLASS** IF APPROPRIATE FOREIGN PATENT DOCUMENTS TRANSLATION DOCKET NUMBER DATE COUNTRY **CLASS SUBCLASS** YES NO OTHER DOCUMENTS (Including Author, Title, Date Pertinent Pages, Etc.) Bennett WF, Paoni NF, Keyt BA, Botstein D, Jones AJ, Presta L, Wurm FM, Zoller MJ. HIGH RESOLUTION ANALYSIS OF FUNCTIONAL DETERMINANTS ON HUMAN TISSUE-TYPE PLASMINOGEN ACTIVATOR, Journal of Biological Chemistry 1991, 266(8):5191-5201. Cao Y, Ji RW, Davidson D, Schaller J, Marti D, Sohndel S, McCance SG, O'Reilly MS, Llinas M, Folkman J. KRINGLE DOMAINS OF HUMAN ANGIOSTATIN. CHARACTERIZATION OF THE ANTI-PROLIFERATION ACTIVITY ON ENDOTHELIAL CELLS, Journal of Biological Chemistry 1996; 271:297431-29467. Cao Y., Chen A, An SSA, Ji RW, Davidson D, Llinas M. KRINGLE 5 OF PLASMINOGEN IS A NOVEL INHIBITOR OF ENDOTHELIAL CELL GROWTH, Journal of Biological Chemistry 1997, 272:22924-Chang et al. SOMATIC GENE THERAPY, CRC Press, Ann Arbor, MI 1995. Cheng XF, Brohlin M, Pohl G, Back O, Wallen P. BINDING OF TISSUE PLASMINOGEN ACTIVATOR TO ENDOTHELIAL CELLS, Thrombosis Research 1955, 77(2)149-164. Dong Z, Kumar R, Yang X, Fidler IJ. MACROPHAGE-DERIVED METALLOELASTASE IS RESPONSIBLE FOR THE GENERATION OF ANGIOSTATIN IN LEWIS LUNG CARCINOMA, C | 1997. 88:801-810. Dunn T. OXYGEN AND CANCER, NorthCarolina Medical Journal 1997,58:140-143. Fisher B, Gunduz N, Saffer EA. INFLUENCE OF THE INTERVAL BETWEEN PRIMARY TUMOR REMOVAL AND CHEMOTHERAPY ON KINETICS AND GROWTH OF METASTASES, Cancer Research, 43:1488-1492. Folkman J, D'Amore PA, BLOOD VESSEL FORMATION: WHAT IS ITS MOLECULAR BASIS?, Cell 1996, 87(7):1153-1155. Forsgren M, Râden B, Israelsson M, Larsson K, HedEn LO. MOLECULAR CLONING AND CHARACTERIZATION OF A FULL-LENGTH cDNA CLONE FOR HUMAN PLASMINOGEN. FEBS Letters 1987, 213(2):254-260. Garcia G, Mar P, Mullin D, Walker J, Prather N. THE E coli dna Y GENE ENDOCES AN ARGININE TRANSFER RNA, Cell 1986, 45:453-459. Goldhaber SI, Kessler CM, Heit J, Markis J, Sharma GV, Dawley D, Nagel JS, Meyerovitz M, Kim D, Vaughn DE. RANDOMIZED CONTROLLED TRIAL OF RECOMBINANT TISSUÉ PLASMINOGEN ACTIVATOR VERSUS UROKINASE IN THE TREATMENT OF ACUTE PULMONARY EMBOLISM, Lancet 1988, 2(8606):293-298. Horrevoets A, Smilde A, de Vries C, Pannekoek H. THE SPECIFIC ROLES OF FINGER AND KRINGLE 2 DOMAINS OF TISSUE-TYPE PLASMINOGEN ACTIVATOR DURING IN VITRO FIBRINOLYSIS. Journal of Biological Chemistry 1994, 269(17):12639-12644.

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Bruska KA, Rolnick F, Huskey M, Alvarez U, Cheresh D. ENGAGEMENT OF THE OSTEOCLAST INTEGRIN ALPHA V BETA 3 BY OSTEOPONTIN STIMULATES PHOSPHATIDYLINOSITOL 3-HYDROXYL KINASE ACTIVITY, Endocrinology 1995, 136(7):2984-2992.
PLASMINOGEN, J Protein Chem 1997, 16:669-679. Jendrasschak E., Sage EH. REGULATION OF ANGIOGENESIS BY SPARC AND ANGIOSTATIN:
IMPLICATIONS FOR TUMOR CELL BIOLOGY, Seminars in Cancer Biology 1996, 7:139-146.
Ji WR, Barrientos LG, Llinas M, Gray H, Villarreal X, DeFord ME, Castellino FJ, Kramer RA, Trail PA. SELECTIVE INHIBITION BY KRINGLE 5 OF HUMAN PLASMINOGEN ON ENDOTHELUAL CELL MIGRATION, AN IMPORTANT PROCESS IN ANGIOGENESIS, Biochemical and Biophysical Research Communications 1998, 247:414-419.
Liotta LA, Steeg PS, Stetler-Stevenson WG. CANCER METASTASIS AND ANGIOGENESIS; AN IMBALANCE OF POSITIVE AND NEGATIVE REGULATION, Cell 1991, 64:327-336.
The National Institute of Neurological Disorders and Stoke (NINDS) rt-PA Stroke Study Group, A SYSTEM APPROACH TO IMMEDIATE EVALUATION AND MANAGEMENT OF HYPERACUTE STROKE. EXPERIENCE AT EIGHT CENTERS AND IMPLICATIONS FOR COMMUNITY PRACTICE AND PATIENT CARE, Stroke 1997, 28(8):1530-1540.
Nesheim M, Fredenburgh JC, Larsen GR. THE DISSOCIATION CONSTANTS AND STOICHIOMETRIES OF THE INTERACTIONS OF LYS-PLASMINOGEN AND CHLOROMETHYL KETONE DERIVATIVES OF TISSUE PLASMINOGEN ACTIVATOR AND THE VARIANT DELTA FE IX WITH INTACT FIBRIN, Journal of Biological Chemistry 1990, 265(35) 21541-21548.
O'Reilly M, Boehm T, Shing Y, Fukai N, Vasios G, Lane W, Flynn E, Birkhead J, Olsen B, Folkman J. ENDOSTATIN: AN ENDOGENOUS INHIBITOR OF ANGIOGENSIS AND TUMOR GROWTH, Cell 1997, 88:277-285.
O'Reilly M, Holmgren L, Shing Y, Chen C, Rosenthal R, Moses M, Lane W, Cao Y, Sage EH, Folkman J. ANGIOSTATIN: A NOVEL ANGIOGENESIS INHIBITOR THAT MEDIATES THE SUPPRESSION OF METASTASES BY A LEWIS LUNG CARCINOMA, Cell 1994, 79:315-328.
O'Reilly M, Rosenthal R, Sage EH, Smith S, Holmgren L, Moses M, Shing Y, Folkman J. THE SUPPRESSION OF TUMOR METASTASES BY A PRIMARY TUMOR, Surg Forum 1993, 44:474-476. O'Reilly MS, Holmgren L, Chen C, Folkman J. ANGIOSTATIN INDUCES AND SUSTAINS DORMANCY OF HUMAN PRIMARY TUMORS IN MOSE Neture Mod 1996, 2:599, 699.
OF HUMAN PRIMARY TUMORS IN MICE, Nature Med 1996, 2:689-692. Parker JA, Markis JE, Palla A, Goldhaber SZ, Royal HD, Tumeh S, Kim D, Rustgi AK, Holman BL, Kolodny GM. PULMONARY PERFUSION AFTER rt-PA THERAPY FOR ACUTE EMBOLISM: EARLY IMPROVEMENT ASSESSED WITH SEGMENTAL PERFUSION SCANNING, Radiology 1988, 166(2):441-445.
Patterson BC, Sang QA. ANGIOSTATIN-CONVERTING ENZYME ACTIVITIES OF HUMAN MATRILYSIN (MMP-7) AND GELATINASE B/TYPE IV COLLAGENASE (MMP-9), J Biol Chem 1997, 272:28823-28825.
Patthy L. EVOLUTION OF THE PROTEASES OF BLOOD COAGULATION AND FIBRINOLYSIS BY ASSEMBLY FROM MODULES, Cell 1985, 41(3):657-663.
Saarela J, Ylikarppa R, Rehn M, Purmonen S, Pihlajaniemi T. COMPLETE PRIMARY STRUCTURE OF TWO VARIANT FORMS OF HUMAN TYPE XVIII COLLAGEN AND TISSUE-SPECIFIC DIFFERENCES IN THE EXPRESSION OF THE CORRESPONDING TRANSCRIPTS, Matrix Biology 1997, 16:319-328.
Standker L, Schrader M, Kanse SM, Jurgens M, Forssmann WG, Preissner KT. ISOLATION AND CHARACTERIZATION OF THE CIRCULATING FORM OF HUMAN ENDOSTATIN. FEBS Letters 1997, 420(2-3):129-133.
Stathakis P, Fitsgerald M, Mathrhais LJ, Chesterman CN, Hogg PJ. GENERATION OF ANGIOSTATIN BY REDUCTION AND PROTEOLYSIS PF PLASMIN. CATALYSIS BY A PLASMIN REDUCTASE SECRETED BY CULTURED CELLS, J. Biol Chem 1997, 272:20647-20645.
Stump DC, Califf RM, Topol EJ, Sigmon K, Thorton D, Masek R, Anderson L, Collen D. PHARMACODYNAMICS OF THROMBOLYSIS WITH RECOMBINANT TISSUE-TYPE PLASMINOGEN ACTIVATOR. CORRELATIONS WITH CHARACTERISTICS OF AND CLINICAL OUTCOMES IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION, The TAMI Study Group, Circulation 1989, 80(5)1222-1230.
Thimmer R, Spangenberg HC, Blum HE. ANGIOSTATIN. A BIOLOGICAL INHIBITOR OF TUMOR ANGIOGENESIS, Deutsche Medizinische Wochenschrift 1997, 122:413-414.
Wardlaw JM, Warlow CP, Consell C. SYSTEMATIC REVIEW OF EVIDENCE ON THROMBOLYTIC THERAPY FOR ACUTE ISCHAEMIC STOKE, Lancet 1997, 350(9078):607-614.

	White FC, Carroll SM, Kamps MP. VEGF mRNA IS REVERSIBLY STABILIZED BY HYPOXIA AND PERSISTENTLY STABILIZED IN VEGF-OVEREXPRESSING HUMAN TUMOR CELL LINE, Growth Factors 1995, 12(4):289-301.
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